Police Technology Division

HECKLER & KOCH GMBH
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P7 (PSP) Police Self-loading Pistol
9 mm x 19 Parabellum

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Design features · Advantages

Police departments have long wanted a modern, innovative handgun;
HECKLER & KOCH has met his challenge with an entirely new and unconventional pistol.
Throughout the entire development process, the objective was to turn these ideas into reality, with perfect engineering and functionalism.

1.
The action is self-locked by the gas pressure developed by the round being fired.
How it works:
Just in front of the chamber is a small vent in the barrel. When a shot is fired and the bullet leaves the cartridge case, a portion of the powder gas instantly flows through this hole and into a cylinder located beneath the barrel, thereby delaying the rearward motion of the slide.

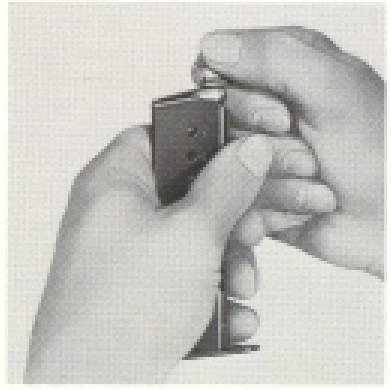
Only when the gas pressure has declined – after the bullet has left the barrel – the piston in the cylinder can retract. This recoils the slide, thereby ejecting the empty cartridge case and chambering the next round when the slide returns forward again. Additional advantages of this feature:
Stationary barrel, compact dimensions, uncomplicated, no separate locking mechanism.

2.
Instead of a conventional double action trigger, the P7 (PSP) features a squeeze cocker.
When the shooter grasps the weapon, his fingers simultaneously depress the squeeze cocker, which automatically cocks the firing pin. It is not necessary for the shooter to cramp his hand in order to keep the squeeze cocker depressed, since it engages in the cocked position. As soon as the pistol is released, however, the squeeze cocker snaps forward, thereby automatically uncocking the firing pin.
Should the shooter drop the weapon, it is uncocked even before it hits the ground. This system also eliminates the need for a conventional firing pin system incorporating a hammer, which is expensive, requires a great deal of space and is usually of complicated design. All this means that the pistol is ready to fire instantaneously. The squeeze cocker also releases the slide catch when the slide is in the open position. A squeeze is all that's required to snap the slide forward. And, of course, this simultaneously chambers a round if a filled magazine is inserted. There is no lateral slide catch and release lever, which permits the superb handling of the P7 (PSP) to be enjoyed equally by both left and right-handed shooters.

3.
The pistol grip is angled 110° relative to the barrel. In spite of this ergonomically favourable pistol grip angle, it was nevertheless possible to arrange the magazine virtually perpendicular to the barrel, thereby providing optimum feed of the cartridges from magazine to chamber – even when using special ammunition with unconventional bullet configurations. This makes the pistol considerably less susceptible to malfunctions than conventional models.

Filling the magazine

Insert the cartridges under the magazine lips, base first, by pressing down the follower or the cartridge.
The magazine holds 8 rounds.



◀ Filling the magazine

Loading the pistol

Insert a filled magazine into the closed weapon until the magazine catch engages.

Pull back slide all the way and let it snap forward.

This chambers the top cartridge from the magazine.

The P7 (PSP) is now ready to fire.

▼ Pull back slide

Firing Operation

P7 (PSP) loaded – round in the chamber.

Grasp the weapon, holding it ready to fire – Depress squeeze cocker (the firing pin is now cocked for the first shot) –

Pull the trigger – This will release the cocked firing pin.

Keep the squeeze cocker depressed for all subsequent shots; it is only necessary to pull the trigger.

Light trigger pull (single action) from the first shot on, and for all following shots, which means increased accuracy.

Recocking
(Should round fail to ignite)
Ease-off gripping and squeeze again – to recock the firing pin – pull the trigger.

Please note:
When firing, the shooter can relieve his grip and hold the P7 (PSP) with only the force required to hold a conventional pistol.

Opening the shooter's hand around the grip (the squeeze cocker will move forward to its initial position) automatically uncocks the P7 (PSP). In other words: "Uncocking by letting go", almost as simple and natural as exhaling.

Silent uncocking
To uncock the weapon silently, pull back the slide approx. 0.39 in. (10 mm), release the squeeze cocker and lead the slide forward by hand.

▼ Squeeze cocker depressed

Reloading when the magazine is empty

After the last round has been fired, the slide will remain open.

To continue firing immediately, simply exchange the empty magazine for a full one and:

Either

Depress squeeze cocker; this will cause the slide to snap forward and will automatically cock the firing pin.

or

Pull the slide back slightly and let it snap forward.

The P7 (PSP) is ready to fire again.

▼ Reloading the pistol

Stripping for cleaning

Remove magazine.

Pull slide back all the way and make sure the chamber is clear.

Let slide snap forward again.

Press stripping button on receiver.

Pull back slide all the way and lift off.

Remove slide to the front.

▼ Remove slide

Removal and installation of the firing pin

Removal

Depress squeeze cocker until the firing pin is even with the rear of the slide.

Press bush approx. 0.02 in. (0.5 mm) forward with the special screwdriver and rotate 90° to the right.

Depress squeeze cocker all the way and remove firing pin.

Installation

Insert firing pin into the slide until the bush is located approx. 0.02 in. (0.5 mm) inside the slide.

Rotate bush 90° to the left until it engages and is even with the rear end of the slide.

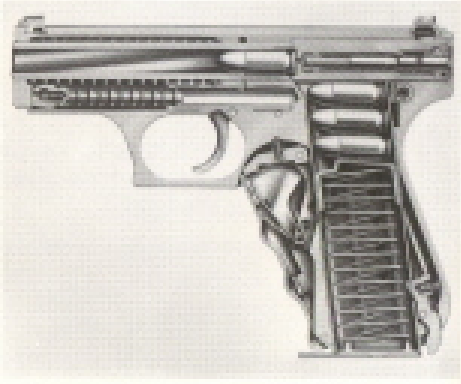
▼ Press bush forward

Assembling the pistol

Push slide onto receiver from the front.

Pull back slide all the way.

Press slide downward and let it snap forward.



▼ Place slide on receiver

Care of the pistol

For cleaning, it is sufficient to strip the pistol as described on pages 8 and 10.

The service life and performance of the pistol depend upon correct handling and proper care.

The barrel must always be cleaned every time the pistol is fired.

Generally, cleaning consists of removing dirt and moisture.

Bright parts must be wiped clean and lightly oiled.

To remove dirt in the slide, no hard tools must be used. Otherwise the elbow spring of the drop safety catch could disengage and consequently this drop safety would not function anymore.

It is advisable to clean the reaction piston system (cylinder and piston) after approx. 1000 rounds have been fired.

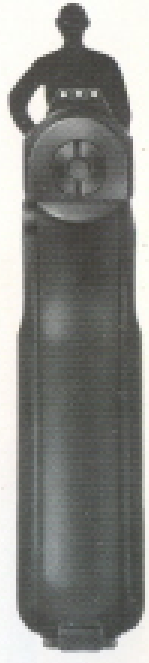
Any commercial cleaning agent, gun oil or gun grease which does not contain chlorine or acids may be used.

Adjustment Sights

The pistol can be adjusted for windage by shifting the rear sight.

Adjustment for elevation is performed by means of interchangeable front sights with different heights.

The respective height of the front sight is engraved on the bottom of the front sight.



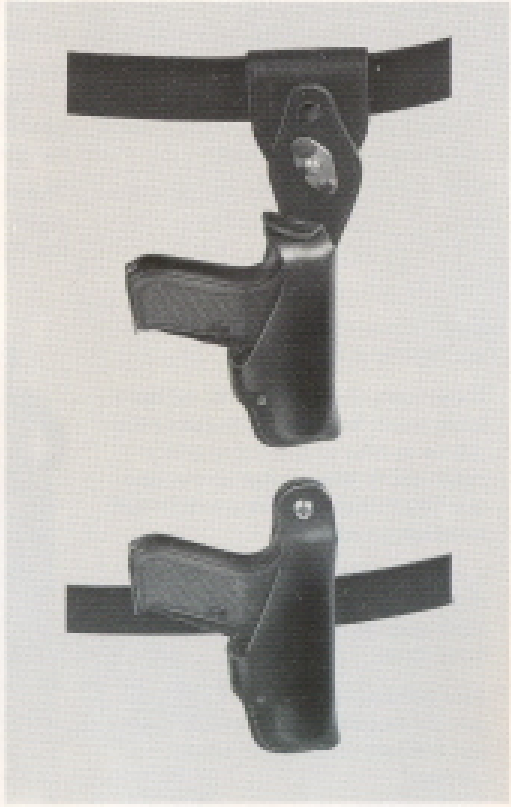
The sights are equipped with durable contrast points.

This makes them easy to line up against dark targets under twilight conditions. The P7 (PSP) is also available with "Betalight" luminous points.

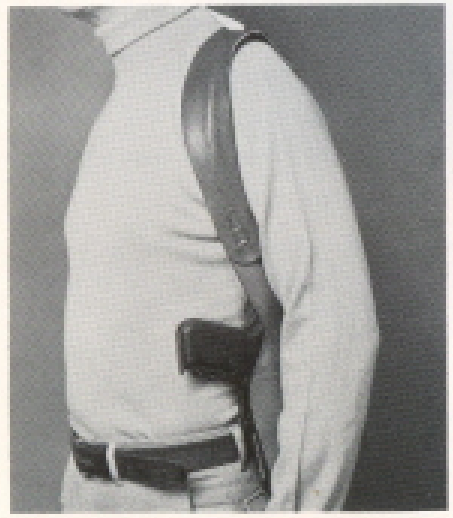
Carrying mode

The slim, completely smooth form of the P7 (PSP) is especially well suited for being carried inconspicuously in a fast-draw belt holster; the pistol can be secured against removal by means of a snap fastener.

This pistol holster can quickly be converted for concealed carrying.



Shoulder holster for concealed carrying



Fast-draw belt holster for concealed carrying

▲ Available in two versions:

For carrying on right side, right-handed draw; loop for belt widths of up to (1.75 in. (44 mm).

Carrying on left side, left-handed draw.

Specifications

Operating principle	Recoil operated
Action	Retarded inertia bolt
Feed	Straight magazine for 8 rounds
Calibre	9 mm x 19 Parabellum (9 mm Luger)
Muzzle velocity	approx. 351 m/sec. V_0
Muzzle energy	approx. 500 Joule E_0
Mode of fire	Single fire

Dimensions

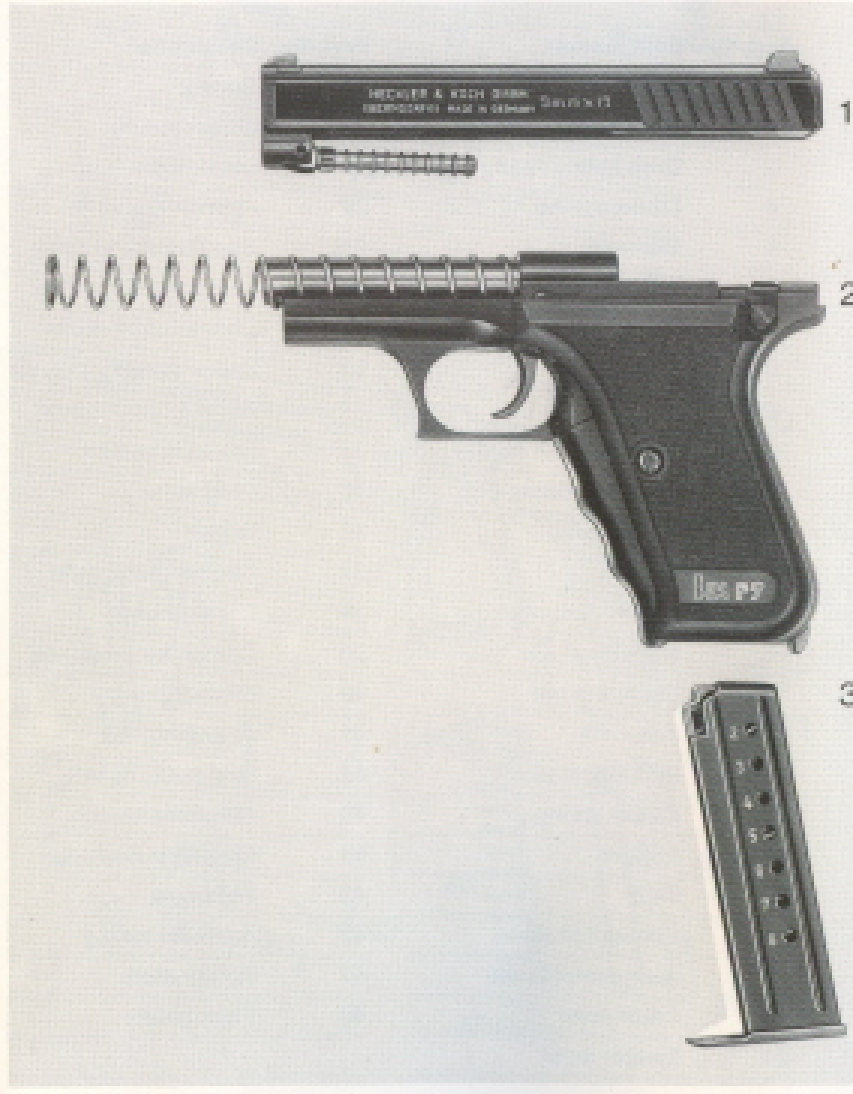
Overall length	6.54 in. (166 mm)
Height of pistol	5.00 in. (127 mm)
Width across grips	1.14 in./1.34 in. (29 mm/34 mm)
Length of barrel	4.13 in. (105 mm)
Sight radius	5.83 in. (148 mm)

Weights

Pistol with full magazine	approx. 35.54 oz. (950 g)
Pistol without magazine	approx. 27.71 oz. (785 g)
Magazine, filled with 8 rounds	approx. 5.82 oz. (165 g)

Assemblies

1 Slide
2 Receiver
3 Magazine



Contents · P7 (PSP) Pistol

Part No.	Designation
1	Slide
2	Front sight
3	Drop safety catch
4	Elbow spring
5	Extractor
6	Pressure pin
7	Compression spring
8	Rear sight
9	Ring
10	Compression spring
11	Compression spring
12	Firing pin
13	Bush
14	Compression spring
15	Cylindrical pin
15.1	Clamping pin
16	Piston
17	Cylindrical pin
18	Elbow spring
19	Trigger
20	Sear
21	Cylindrical pin
22	Sear control lever
23	Catch lever
24	Ejector lever

Part No.	Designation
25	Spring
26	Elbow spring
27	Locking pin
28	Clamping sleeve
29	Slide retaining catch
30	Compression spring
31	Cheese head screw
32	Recoil spring
33	Receiver with barrel
34	Squeeze cocker
35	Drag lever
36	Rocker
37	Cocking lever stop
38	Cocking latch
39	Compression spring
40	Elbow spring
41	Grip shell, left
42	Grip shell, right
43	Magazine catch
44	Magazine housing
45	Follower
46	Follower spring
47	Safety plate
48	Floor plate